

NOTES

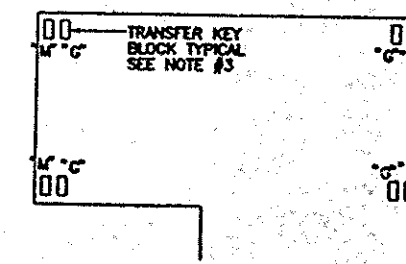
- FOR LEGEND SEE DRAWING #E-1. FOR GENERAL NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE SEE DWG. #E-2.
- KEY "D" WILL BE HANDLED AS FOLLOWS:
 * **EXISTING SUBSTATION**
 KEY "D" IS TO REMAIN IN BLOCK PDC-A1-B OR HELD BY THE W.T.C. HIGH TENSION OPERATOR.
- WALL MOUNT TRANSFER BLOCKS "M" FURNISHED BY THE AUTHORITY, NOT SHOWN ON RISER DIAGRAMS BUT SHOWN ON KEY PLAN.

PROCEDURE FOR GROUNDING PRIMARY FEEDER-A1 (TYPICAL FOR 16)

LOCATION	SEQUENCE	DESCRIPTION
(A)		- GET WORK PERMIT FROM AUTHORITY
(B)	(1)	- AT E.D.C. OPEN BKR #PDC-A1 - LOCK OPEN INSERT KEY "PDC-A1-A" IN BLOCK "PDC-A1-B"
(C)		- AT EACH EXIST. SUBSTATION: OPEN NETWORK PROTECTORS & REMOVE LINKS TO BUS, 3PH+H NOTE: ALL 4 NETWORK PROTECTORS MUST BE OPEN TO DEENERGIZE TURN & PADLOCK PRIMARY SWITCH IN OPEN POSITION
(D)	(2) (3) (4)	- AT EACH REPLACEMENT SUBSTATION: OPEN BKR "N 1" - LOCK OPEN INSERT KEY "C" IN BLOCK "D" OPEN & RACK OUT BKR "HV-B1" - LOCKOUT CUBICLE INSERT KEY "E" IN BLOCK "D" RACK OUT BKR "HV-B1" V.T.S. - LOCK OPEN INSERT KEY "F" IN BLOCK "D"
(E)	(5)	- AT P.D.C. FOR REPLACEMENT SUBSTATIONS: INSERT KEY "D" IN BLOCK "PDC-A1-B" FOR EXIST. SUBSTATIONS: SEE NOTE #2 NOTE: WITH KEYS IN POSITIONS 1 THRU 5 IN BLOCK PDC-A1-B KEYS IN POSITIONS 6 THRU 10 ARE RELEASE
(F)		- AT EXIST. SUBSTATIONS: • INSERT KEY PDC-A1-B IN BLOCK "G" • REMOVE PADLOCK HOLDING SWITCH IN OPEN POSITION • PLACE PRIMARY SWITCH IN GROUNDING POSITION
(G)	(6) (7) (8) (9) (10) (11)	- AT REPLACEMENT SUBSTATIONS: INSERT KEY "PDC-A1-B" IN BLOCK "G" ROTATE GAT DEVICE SEL SW. TO "LINE" POSITION INSERT KEY "H" IN BLOCK "G" INSERT KEY "G1" IN BLOCK "E" UNLOCK CUBICLE-INSERT GAT INSERT KEY "G2" IN BLOCK "F" TO START SEQUENCE OF UNLOCKING GAT "LINE SHUTTER" CLOSE GAT ("LINE SHUTTER" CAN BE OPEN AT THIS STAGE FOR TEST PROBES INSERTION) REMOVE AND POCKET KEY "J", GAT LOCKED CLOSE

LEGEND

- KEY BLOCK WITH KEY (SHOWN IN NORMAL LOCATION)
- KEY BLOCK WITHOUT KEY
- EQUIPMENT FURNISHED BY THE AUTHORITY AND INSTALLED BY THE CONTRACTOR. (SEE NOTE #3 DWG. #E-3)



**THE PORT AUTHORITY
OF NY & NJ**

Peter L. Sweeney
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Engineering Department
Design Divisions

**The World Trade
Center
Electrical/HVAC
Upgrade Program**

Title
**TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION**

ELECTRICAL

**KIRK KEY INTERLOCKING
RISER DIAGRAMS**

No. Date Revision Approved
This drawing is subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.
ROYZMAN FISCHER ROYZMAN A.S.
Designed by Drawn by Checked by

Date 5-1-95 Scale NONE
Contract Number Drawing Number
WTC 802.071 E-104

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.
DATE 6/21/95 *Sultan A. Aslam*
SPEC. WRITER
DATE 8/15/95 *Peter L. Sweeney*
ENGINEER OF DESIGN